Ejercicio10sec2.4grossman2ed.

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encuentre el determinante y halle la inversa de la matriz dada.

$$A = \begin{vmatrix} 1 & 6 & 2 \\ -2 & 3 & 5 \\ 7 & 12 & -4 \end{vmatrix}$$

```
----------------------------------------------------------------------
| Sage Version 3.4, Release Date: 2009-03-11                         |
| Type notebook() for the GUI, and license() for information.        |
----------------------------------------------------------------------
Sage Version 3.4, Release Date: 2009-03-11
```

```
sage] A=matrix(QQ,[[1,6,2],[-2,3,5],[7,12,-4]])
sage] A
```

$$\begin{pmatrix} 1 & 6 & 2 \\ -2 & 3 & 5 \\ 7 & 12 & -4 \end{pmatrix}$$

```
sage] A.inverse()
Traceback (most recent call last):
ZeroDivisionError: input matrix must be nonsingular
sage]
```

la matriz no tiene inversa.

pero su determinante es

```
sage] A.determinant()
```

0

```
sage]
```

y su determinante es 0 como quedo comprobado.